# Cytometer Performance Report

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|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 02/05/2015 12:32 PM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/20/2014 10:06 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 51739, Expiration Date: 01/31/2016
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 123570 | -2 | 1.44 | 123385 | 1.40 |
| Blue | F | SSC | 125000 | 124037 | -1 | 2.59 | 124955 | 2.29 |
| Blue | E | FITC | 17374 | 16516 | -5 | 2.36 | 930 | 8.60 |
| Blue | D | PE | 22653 | 21927 | -4 | 1.90 | 989 | 7.89 |
| Blue | B | PerCP-Cy5-5 | 64987 | 63721 | -2 | 2.66 | 1684 | 12.74 |
| Blue | A | PE-Cy7 | 74081 | 72639 | -2 | 3.61 | 955 | 24.71 |
| Red | C | APC | 61430 | 60582 | -2 | 2.58 | 3431 | 7.98 |
| Red | A | APC-Cy7 | 88289 | 87781 | -1 | 2.66 | 1741 | 7.82 |
| Violet | B | V450 | 12535 | 12064 | -4 | 3.10 | 744 | 7.33 |
| Violet | A | V500 | 47468 | 46634 | -2 | 2.66 | 2633 | 5.18 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 19861 | 5.49 | 589 | 10 | N/A | N/A | Pass |
| Blue | F | SSC | 61903 | 1.52 | 499 | 10 | N/A | N/A | Pass |
| Blue | E | FITC | 101 | 34.66 | 514 | 5 | 0.0273 | 122 | Pass |
| Blue | D | PE | 205 | 23.76 | 508 | 7 | 0.1788 | 126 | Pass |
| Blue | B | PerCP-Cy5-5 | 206 | 37.77 | 590 | 10 | 0.0118 | 0 | Pass |
| Blue | A | PE-Cy7 | 71 | 96.09 | 648 | 11 | 0.0149 | 5 | Pass |
| Red | C | APC | 320 | 25.40 | 572 | 2 | 0.0219 | 0 | Pass |
| Red | A | APC-Cy7 | 110 | 37.44 | 549 | 3 | 0.0050 | 846 | Pass |
| Violet | B | V450 | 78 | 37.89 | 450 | 1 | 0.0563 | 1650 | Pass |
| Violet | A | V500 | 172 | 18.81 | 479 | 1 | 0.0172 | 0 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.59 | 47.70 - 71.54 | N/A | N/A | -30.90 | -30.69 | 0.88 |
| Blue | 20.47 | 16.35 - 24.53 | 1.25 | 1.00 - 1.50 | 0.00 | 0.00 | 1.32 |
| Red | 14.63 | 13.07 - 19.61 | N/A | N/A | 31.21 | 31.40 | 1.12 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.89

## Threshold

Threshold (FSC): 14815

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments